

NAVAL SPACE COMMAND HISTORY FROM 1 JANUARY 1983 TO 31 DECEMBER 1985

1. Historical Summary

On 15 June 1983, Secretary of the Navy John F. Lehman, Jr., announced the formation of the Naval Space Command (NAVSPACECOM). The command was organized to consolidate the Navy's various space activities, to exploit opportunities in space, and to enhance the Navy's ability to execute worldwide maritime missions. Dahlgren, Va., site of the Naval Surface Weapons Center (NAVSWC), was chosen as the location for the command's headquarters. CAPT (COMO Select) Richard H. Truly, USN, an astronaut with the National Aeronautics and Space Administration (NASA) Space Shuttle Program, was named as NAVSPACECOM's first Commander.¹ Chief of Naval Operations Admiral James D. Watkins, USN, commissioned NAVSPACECOM on 1 October 1983 as an operational, second-echelon command that reports to CNO and provides direct support to fleet units worldwide as well as other agencies. Existing Navy space organizations assigned to NAVSPACECOM were the Naval Space Surveillance System (NAVSPASUR) with headquarters in Dahlgren, Va., and the Navy Astronautics Group (NAVASTROGRU) with headquarters at Point Mugu, Calif. Upon the commissioning of the U.S. Space Command on 23 September 1985, NAVSPACECOM assumed an additional role as the naval service component of the unified command, headquartered at Peterson Air Force Base near Colorado Springs, Colo.

2. Chronological Summary of Operations

a. 1983 Operations

OCT - An initial headquarters staff of seven officers, one enlisted, and five civilians is located in 3,000 square feet of borrowed office space in Building 183 at Dahlgren, which also houses headquarters offices and operations and computer centers for NAVSPASUR.

DEC - Development of the Naval Space Short Course is initiated (see Special Topics).

b. 1984 Operations

JAN - Development of the Naval Space Master Plan is initiated. This document is designed to incorporate identified fleet requirements into future naval space systems procurement strategies. It sets forward an investment strategy and recommends priorities and a basic implementation plan.

JAN - Assumed lead in planning operational management of the Relocatable Over-the-Horizon Radar (ROTHR) system.

MAR - Space Information Management System (SIMS) Mission Element Need Statement (MENS) is submitted to Director, Navy Space Systems Division (OP-943) (see Special Topics).

¹ RADM D. Bruce Cargill, USN, Director, Navy Space Systems Division (OP-943), reported for additional duty as Commander, Naval Space Command, on 30 April 1986 in relief of RADM Truly who was appointed as Associate Administrator for Space Flight at NASA Headquarters in Washington, D.C., in February 1986.

APR - Growing headquarters staff expands into an additional 8,000 square feet of temporary trailer space.

JUN - Certification completed for NAVSPACECOM's new Secure Compartmented Information Facility (SCIF) in Building 183.

JUN - Military Construction (MILCON) 35-percent design is completed for NAVSPACECOM's new 30,000 square-foot Command and Control Center. The two-story brick structure is to be constructed at Dahlgren to provide permanent office spaces for headquarters staff, as well as a space operations center and communications and computer areas.

JUN - SIMS System Decision Paper (SDP I) submitted to Director, Space, Command and Control (OP-094).

JUL - Participated in the first space cell used in annual Global War Games at the Naval War College in Newport, R.I.

SEP - Hosted a commanders' conference for NAVSPACECOM, NAVSPASUR, and NAVASTROGRU to identify command goals and integrate subordinate commands into the accomplishment of those goals.

OCT - U.S. Naval Reserve NAVSPACECOM DAHLGREN 0166 is commissioned on 1 October (see Special Topics).

OCT - Assumed operational management of Navy communications satellite systems (FLTSATCOM, GAPFILLER, LEASAT).

OCT - Assumed operational control of NOVA III, second generation of the TRANSIT satellite system.

NOV - Naval Space Short Course presentations to Fleet units, Fleet CINCs, and Unified CINCs are initiated.

NOV - Initiated development of integrated space architecture to develop space system concepts which meet the operational goals and performance needs of the Navy by performing mission area development and requirements analysis.

NOV - Supported development of the Enhanced Shipborne Emitter Location Report through participation in COMPUTEX-84 with the Seventh Fleet.

DEC - Hosted first Navy TENCAP (Tactical Exploitation of National Capabilities) program conference at Dahlgren. The conference theme was "Collection Management," and there were approximately 70 attendees from throughout the Navy. Proceedings were published and are classified SCI.

c. 1985 Operations

JAN - Initiated a program to address satellite radio frequency interference (RFI) geolocation problem.

JAN - SIMS SDP II submitted to OP-094.

FEB - Memorandum of Understanding signed between NAVSPACECOM and the U.S. Naval Academy to establish a space systems research professorial chair in the academy's Aerospace Engineering Department.

MAR - Participated in exercise WINTEX-CIMEX 85.

MAR - Commenced development of space correspondence course.

MAR - COMNAVSPACECOM is designated as a Level 4 approving authority for ADP acquisitions.

MAR - SIMS Project Management Plan developed and implemented.

MAR - SIMS SDP II is approved and authorization to acquire the system is granted.

MAY - COL Richard L. Phillips, USMC, reports for duty as Deputy Commander, NAVSPACECOM, as the first Marine Corps officer to occupy that billet.

JUL - Participated in the space cell of Global War Game 1985 at the Naval War College in Newport, R.I.

AUG - Supported the development and utilization of a Special Broadcast which sent Classic Wizard data directly to tactical commanders; successfully tested during exercise NORPAC 85/PACFACT 85.

NOV - Participated in exercise PORT CALL 85.

NOV - Provided support for Red Cell in exercise OCEAN SAFARI 85.

DEC - Procurement authority for SIMS granted by Naval Data Automation Command.

DEC - Hosted first flag space conference. Topics covered included naval space strategy, naval space master plan, NAVSPACECOM relationships with U.S. Space Command, Space and Naval Warfare Systems Command organization and operating policies, CNO's road map for the Strategic Defense Initiative (SDI), and the Baseline Area Appraisal. Participants were RADM D. Bruce Cargill, USN, Dir., Navy Space Systems Division (OP-943); RADM Richard H. Truly, USN, COMNAVSPACECOM; RADM T. K. Mattingly, USN, Space Program Director (PDW-106); and RADM Thomas C. Betterton, USN, Project Manager for Special Systems (PDW-106-5).

DEC - NAVSPACECOM sponsored the 1985 Navy-wide TENCAP conference, hosted by CINCLANTFLT in Norfolk, Va. The conference theme was "Sensor to Shooter." Proceedings were published and classified SCI.

3. Community Relations

a. 1983

NOV - Participated in the Combined Federal Campaign (CFC) fundraiser sponsored by NAVSWC at Dahlgren. Headquarters personnel had 100-percent participation.

b. 1984

MAY - Participated in Navy Relief Fund Drive at Dahlgren; 100-percent participation among headquarters staff.

MAY - Sponsored a Spouse Day, which included a presentation on command activities, brief tour of work spaces, and refreshments for spouses of headquarters personnel.

JUL - Sponsored public memorial service to commemorate POW/MIA Recognition Day.

SEP - Participated in the 10th Anniversary Open House sponsored by NAVSWC Dahlgren. NAVSPACECOM furnished a command exhibit and arranged for the NASA Aerospace Van to take part in the event.

NOV - Participated in Dahlgren CFC; 100 percent of headquarters personnel contributed to the fundraiser.

c. 1985

MAR - Participated in NAVSWC Dahlgren's "Report to the Community" dinner meeting held for local businessmen and public officials.

MAY - Sponsored a Spouse Day similar to that held the previous year.

JUN - Relief project for tornado victims in Albion, Penn., conducted by headquarters personnel. Approximately 600 pounds of food and household supplies were collected and delivered to relief authorities in Albion.

NOV - Participated in Dahlgren CFC; 89 percent of headquarters personnel contributed over \$4,000 to the campaign.

DEC - Headquarters staff joined NAVSPASUR personnel to collect approximately 80 pounds of canned goods and nonperishable food items for a local food bank. The supplies were included in Christmas food packages for over 90 needy families.

4. Special Topics

a. Command Manpower History

NAVSPACECOM was established on 1 October 1983 with a total of 60 billets authorized. Two subordinate commands, NAVSPASUR and NAVASTROGRU, had 139 and 187 billets, respectively. Manpower growth at NAVSPACECOM headquarters was attained primarily through functional transfers, as indicated below.

Manpower Growth at NAVSPACECOM Headquarters

	<u>FY-84</u> <u>(1 Oct 83)</u>	<u>FY-85</u> <u>(1 Oct 84)</u>	<u>FY-86</u> <u>(1 Oct 85)</u>
Officer	24	26	31
Enlisted	4	4	5
Civilian	<u>32</u>	<u>32</u>	<u>37</u>
TOTAL	60	62	73
		Transfer from OPNAV 2 Officer	Transfer from NAVTELCOM 4 Officer 1 Enlisted 5 Civilian Additional officer approved for ROTHF support

NAVSPACECOM was designated as command authority for the ROTH and SLOW WALKER programs in FY-85. Manpower requirements were satisfied through the following functional transfers:

- 3 civilians were transferred to NAVSPASUR for ROTH support.
- 3 officer and 5 enlisted billets were transferred to NAVSPASUR DET A to form the initial cadre of ROTH personnel.
- 1 officer and 5 enlisted billets were transferred to NAVSPASUR DET E for initial manning for SLOW WALKER.

b. Budget Information

Total Funds Obligated (O&M,N) (\$M)			
Component	(Actual)		(Budgeted)
	FY84	FY85	FY86
NAVSPACECOM HQ	1.3	2.7	2.1
NAVSPASUR	9.4	10.6	10.5
NAVASTROGRU	4.6	4.7	4.7
Fleet Operations			
Support	0.0	0.0	0.6
Telecommunications			
& Cmd./Control	<u>0.0</u>	<u>43.3</u>	<u>43.2</u>
TOTAL O&M,N	15.3	61.3	61.1

Funds Obligated for Contracts and Purchases (\$M)			
	(Actual)		(Budgeted)
	FY84	FY85	FY86
NAVSPACECOM HQ	0.3	0.6	0.4
Fleet Operations			
Support	0.0	0.0	0.3
Telecommunications			
& Cmd./Control	<u>0.0</u>	<u>43.3*</u>	<u>43.2*</u>
TOTAL	0.3	43.9	43.9

*LEASAT (Leased Satellite) contract with Hughes Communications Services, Inc.

c. Naval Space Short Course

Development of the Naval Space Short Course was directed by CNO in December 1983, and sponsored by OP-943. The purpose of the course is to help spread an awareness of space and its application to naval warfare to fleet operating forces. Initial planning participants were OP-943, NAVSPACECOM, Naval Research Laboratory, Naval Postgraduate School, CNO Executive Panel, and Defense Intelligence Agency. Management responsibility for the course was assigned to NAVSPACECOM in November 1984.

The course is structured to be flexible in content, classification, and length, and is capable of being modified to meet the needs of a particular audience, from junior enlisted personnel to flag-rank officers. To date, more than 1,500 tactical planners and users have attended the short course, which has been presented on over 20 occasions by NAVSPACECOM personnel. General officers and Flag equivalents who have attended the course to date are the following:

- Commander-in-Chief, Atlantic Fleet
- Commander-in-Chief, Pacific Fleet
- Commandant of the Marine Corps
- Chief of Naval Material
- Director, Defense Mapping Agency
- Chief of Naval Education and Training
- Tactical Training Group, Atlantic
- Tactical Training Group, Pacific
- Marine Corps Development and Education Command
- U.S. Army Space Initiatives Study Group

d. U.S. Naval Reserve NAVSPACECOM DAHLGREN 0166

This new Selective Reserve unit was established on 1 October 1984 to augment NAVSPACECOM and NAVSPASUR staffs during wartime. Initially, 15 officer and 13 enlisted billets were authorized for the command. The first commanding officer, CAPT S. David Griggs, USNR-R, an astronaut with NASA's Space Shuttle Program, was assigned in January 1985. Major drills for the command to date:

FEB 85 - First drill (5 onboard)

JUL 85 - First ACDUTRA (7 onboard)

Major Naval Reserve 0166 activities and projects to date:

- Complete audit of NAVSPACECOM and NAVSPASUR current and new Selected Reserve mobilization requirements.

- Review of space treaties.
- Review of Navy satellite communication assets.
- Investigation into the issue of the nationalization of space assets during a national emergency.

e. Outside Inspections

OCT 83 - Survey & Investigations; reviewed the establishment of NAVSPACECOM to determine possible duplication of effort.

FEB 84 - GAO; general overview of NAVSPACECOM.

SEP 84 - Naval Audit Service; review of implementation of Internal Control Program.

SEP 84 - GAO; survey phase for (1) space C3 planning and (2) organization and management of the military in space audits.

APR 85 - Naval Audit Service; command review including ADP equipment, inventories, and year-end spending.

f. Tactical Exploitation of National Capabilities (TENCAP) Program

Two TENCAP billets from the Chief of Naval Operations' staff (TENCAP Branch, OP-943E) were transferred to NAVSPACECOM in August 1984 to enable the command to develop its assigned TENCAP functions:

- Fleet training and fleet exercise support
- Tactical interface with national systems
- Improve effectiveness of existing operations

The command's TENCAP personnel initially formed a TENCAP office, but were reorganized in 1985 as a TENCAP branch within NAVSPACECOM's Operations Division.

NAVSPACECOM's TENCAP organization assumed development and management responsibility for the Navy Exercise Support Tool (NEST) from OP-943E in September 1984. NEST is a program for minicomputers that helps exercise analysts evaluate space systems support to naval exercises. Later that year, the TENCAP syllabus produced by OP-943 for fleet training by the Tactical Training Groups was transferred to NAVSPACECOM for management.

g. Space Information Management System (SIMS)

The Space Information Management System (SIMS) is an integrated office automation and data processing system that will be used by NAVSPACECOM personnel as an administrative and management support system. SIMS will be configured as a secret-level network of minicomputer and microcomputer based systems at NAVSPACECOM headquarters, the Naval Space Surveillance System, the Navy Astronautics Group (NAVASTROGRU), the Navy Relocatable Over-the-Horizon Radar Atlantic, and detachments of NAVROTHRLANT and NAVASTROGRU.

In December 1985, the Naval Data Automation Command approved procurement of the system by NAVSPACECOM starting in FY86.

5. Prominent Visitors

a. 1984

MAR - CAPT Charles K. Roberts, USN, Superintendent, U.S. Naval Observatory

APR - MGEN Thomas Brandt, USAF, Dir. Joint Planning Staff for Space, JCS

COL Sam Beamer, USAF, Dir. Space Plans, HQ USAF

RADM William E. Ramsey, USN, Director, Space, Command and Control (OP-943)

CAPT Thomas C. Betterton, USN, Dir. Special Systems, NAVELEX

RADM David L. Harlow, NMPC

MAY - RADM John B. Mooney, USN, Chief of Naval Research

Paul D. Scully-Power, Assoc. Tech. Dir. (Technology), Naval Underwater Systems Center (NUSC), New London, Conn.

AUG - CAPT T. K. Mattingly, USN, Prospective Dir., Space Program Directorate (PDE-106), NAVELEX

SEP - RADM Don H. McDowell, USN, COMNAVSECGRU

BGEN Van Inwegan, USAF, Air Force Space Command (J2)

DEC - CAPT Edward F. Bronson, USN; COL Lippencott, USAF; and COL Leckel, USAF; Office JCS (C3S)

COL Fabian, USAF, Def. Intelligence College

GEN Robert T. Herres, USAF, CINCNORAD

b. 1985

JAN - RADM Roger E. Box, USN, COMNAVFORCARIB

FEB - Paul D. Scully-Power, Assoc. Tech. Dir. (Technology), NUSC

APR - Congressman Herbert Bateman, R-Va.

Dr. Robert E. Conley, Dep. Asst. Sec., Dept. of the Treasury

Dr. Thomas P. Quinn, Dep. Asst. SECDEF (C3)

RADM William E. Ramsey, USN (OP-943)

MAY - CAPT Don Clark, USN, Dir., Command Systems Program (PDW-120)

COMO Al Koeneman, CHC, USN, Chief of Navy Chaplains

JUN - Dr. Thomas P. Rona, Office of ASD (C3I)

Congressman Mike Lowry, D-Wash.

JUL - COL Lutz, USA, Head, U.S. Army Space Directorate

CAPT Philip Duffy, USN, Dep. Dir. Space, Command and Control (OP-943B)

RADM Norman R. D. King, RN, Cdr., British Naval Staff and Naval Attache, Washington, D.C.

LGEN Morgan, USMC, Dep. Chief of Staff, Plans, Programs, and Operations

Honorable James Beggs, Administrator, NASA

AUG - COL Lazar, USMC, C4 Division, HQMC

COL Robert Davis, USMC, and CAPT Brian Shoemaker, USN, USSPACECOM

LGEM Morgan, USMC, Dep. Chief of Staff, Plans, Programs, and Operations

SEP - CAPT Mahood, USN, Head, Surveillance Branch (OP-943F)

BGEN Frank B. Horton, USAF, Dep. Dir., JSTPS/NSTL

RADM Roger E. Box, USN, USSPACECOM (J3)

RADM William J. Holland, USN (OP-094B)

American Society of Naval Engineers, Presidents' Club

OCT - CAPT Stacey Holmes, USN, and CAPT Donald Clark, USN (PDW-106)

COMO D. Bruce Cargill, USN (OP-943)

COL John N. Shultz, USAF, LCDR Martin A. Shultz, USN, and LCDR John R. Watson, USN, DDMS

NOV - COL Raymond Lee, USAF, COL Albert Rosa, USAF, and CAPT Pieter Olsen, USN, USSPACECOM (J4/6)

COL George R. Greenway, USAF, Comptroller, USSPACECOM

Dr. Ann Berman, Dep. Asst. SECNAV (C3IS)

BGEN Robert F. Milligan, USMC, Dep. Chief of Staff for Development and Dir., Devel. Ctr., USMC Development and Education Command

RADM D. Bruce Cargill, USN (OP-943)

RADM John F. Shaw, USN, Prog. Mgr., AEGIS Shipbuilding Project

RADM Raymond P. Ilg, USN, Dir., Tactical Air, Surface, & Electronic Warfare Development Div. (OP-982)

RADM G. G. W. Marsh, RN, Dep. Controller, Warship Equipment

RADM William M. Fogarty, USN, Dir., Force Level Plans and Warfare Appraisal Div. (OP-095)

GEN William R. Richardson, USA, Commanding General, U.S. Army Training and Doctrine Command

DEC - MGEN Rosenberg, USAF, Dir., Defense Mapping Agency

6. Other Staff Presentations

a. 1984

FEB - TAV Steering Group, Colorado Springs, Colo.

MAY - National Academy of Science's Space Studies Board, Bangor, Wash.

USAF Command and Staff College, Maxwell AFB, Ala.

JUL - North American Aerospace Defense Command (NORAD), Colorado Springs

AUG - Space C3 Symposium, U.S. Air Force Academy

SEP - SECNAV Space Meeting

OCT - MILCOM '84, Los Angeles, Calif. (IEEE, AFCEA)
 Naval Postgraduate School Space Course Review, Monterey, Calif.

NOV - Air Force ASSN/NORAD Brief, Colorado Springs, Colo.
 Air Force Systems Command Tech Seminar-MILSATCOM, Lincoln Laboratories, Mass.
 CINCLANTFLT Short Course, Norfolk, Va.

DEC - Navy Space Technology Symposium, NASA Johnson Space Center, Houston, Texas
 CNO Exec. Panel for Space Exploration Task Force (SETF)

b. 1985

FEB - CINCPACFLT Short Course, Pearl Harbor, Hawaii

MAR - NAVMAT Short Course, Washington, D.C.
 Army War College
 CARGRUTWO/NSWDG

APR - DOD Space Congress, Cape Canaveral, Fla.
 Defense Mapping Agency Short Course, Washington, D.C.

MAY - Naval Space Symposium, Monterey, Calif.
 TACTRAGRULANT Short Course, Norfolk, Va.

JUN - Law Symposium, Naval War College, Newport, R.I.

AUG - CINCUSNAVEUR, London, England
 Chief of Naval Education and Training (CNET), Pensacola, Fla.

SEP - Tailhook Symposium, Las Vegas, Nev.
 USMC Flag Brief, HQMC, Washington, D.C.

OCT - Army Space Symposium, Ft. Leavenworth, Kan.
 Man-in-Space Symposium, Washington, D.C.

EASCON '85, Washington, D.C.

Commander, Iceland Defense Force

NOV - USSPACECOM IPL Brief, Colorado Springs, Colo.